

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details for inside lane closure except that C20(Rt) signs shall be used.
- Not less than one person shall be assigned to full time maintenance of traffic control devices on all complete closures, on all night lane closures and daytime closures exceeding 1.6 km (one mile) in length, including taper.
- All advance warning sign installations shall be equipped with flags for daytime closure. Flashing beacons shall be placed at the locations indicated during night lane closures.
- A C13 "END CONSTRUCTION" or C14 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the C18 (or C23) sign would follow within 600 m (2000') of a stationary C18, C23 or C11 "STATE HIGHWAY CONSTRUCTION NEXT MILES" use a C20 sign for the first advance warning sign.
- Place a C30 sign every 600 m (2000') throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- A minimum 450 m (1500') of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- All cones used for night lane closures shall be fitted with reflective sleeves as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used in lieu of cones for daytime closures only.
- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 600 m (2000') as shown on the "Lane Closure With Partial Shoulder Use" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.

- Unless otherwise specified in the special provisions, the 150 m (500') section of the lane closure shown along lane lines shall be used between the 300 m (1000') lane closure tapers when two or more adjacent traffic lanes are to be closed.
- A minimum of Two Type II barricades shall be placed across each closed lane and shoulder at the location shown and every 600 m (2000') within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Where specified in the special provisions, a C1 "DETOUR AHEAD" sign is to be used in place of the C19 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- | | |
|---|-------------------------------|
| A | 1219 mm x 1219 mm (48" x 48") |
| B | 914 mm x 914 mm (36" x 36") |
| C | 762 mm x 762 mm (30" x 30") |

LEGEND

- Traffic Cone
- ↑ Portable Sign
- ← Flashing Arrow Sign
- Direction of Travel
- ✱ Portable Flashing Beacon

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE AND COMPLETE CLOSURES ON FREEWAYS AND EXPRESSWAYS

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NO SCALE

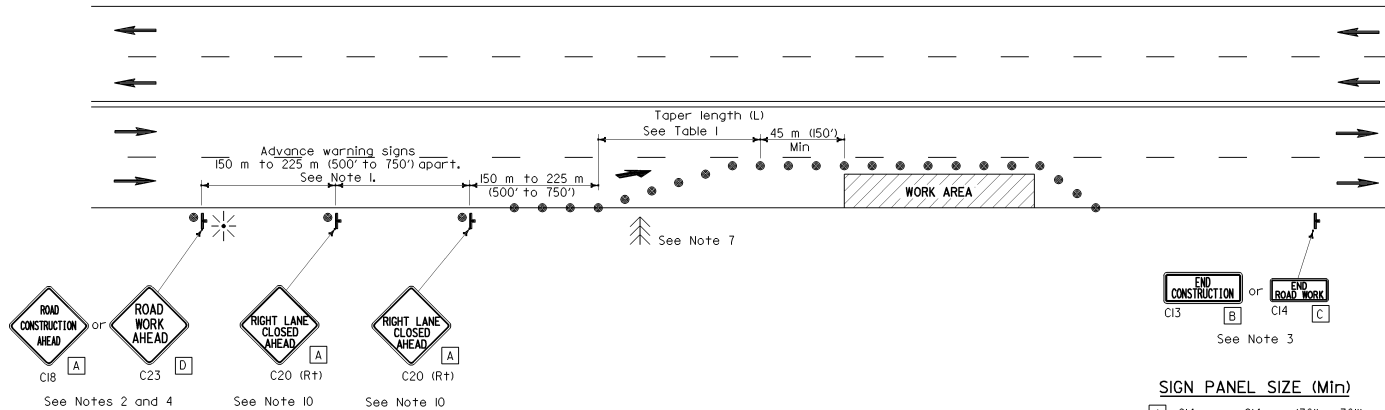
T10A

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

July 1, 2002
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REGISTERED CIVIL ENGINEER
 Greg W. Edwards
 No. C-36386
 Exp. 10-04
 CIVIL
 STATE OF CALIFORNIA

TYPICAL LANE CLOSURE



SIGN PANEL SIZE (Min)

- A 914 mm x 914 mm (36" x 36")
- B 1219 mm x 457 mm (48" x 18")
- C 914 mm x 457 mm (36" x 18")
- D 762 mm x 762 mm (30" x 30")

LEGEND

- Traffic Cone
- ↑ Portable Sign
- ← Direction of Travel
- ⚡ Flashing Arrow Sign
- ⚡ Portable Flashing Beacon

NOTES:

- Where approach speeds are low, signs may be placed at 90 m (300') spacing, and in urban areas, closer.
- All advance warning sign installations shall be equipped with flags for daytime closures. Flashing Beacons shall be placed at the locations indicated for nighttime closures.
- A C13 "END CONSTRUCTION" or C14 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the C18 (or C23) sign would follow within 600 m (2000') of a stationary C18, C23, or C11 "STATE HIGHWAY CONSTRUCTION NEXT _____ MILES", use a C20 sign for the first advance warning sign.
- All cones used for night lane closures shall be fitted with reflective sleeves as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used in lieu of cones for daytime closures only.
- Flashing arrow sign shall be either Type I or Type II.
- The maximum spacing between cones in a taper shall be approximately as shown in Table I and 15 m (50') maximum spacing on tangent.
- For approach speeds over 80 km/h (50 mph), use the "Traffic Control System for Lane Closure On Freeways and Expressways" plan for lane closure details and requirements.
- Where specified in the special provisions, a W11 "LANE REDUCTION SYMBOL" sign is to be used in place of the C20 "RIGHT LANE CLOSED AHEAD" sign.

TABLE I

Approach Speed	*Taper Length (L)	*Number of Cones for Taper	Spacing of Cones Along Taper
0-40 km/h (0-25 mph)	38m (125')	6	7.5 m (25') ±
40-65 km/h (25-40 mph)	98 m (320')	9	12 m (40') ±
65-80 km/h (40-50 mph)	183 m (600')	13	15 m (50') ±
Over 80 km/h (50 mph)	See Note 9		

* Based on 3.6 (12') wide lane. This column is also appropriate for lane widths less than 3.6 m (12').

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**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
MULTILANE CONVENTIONAL
HIGHWAYS**

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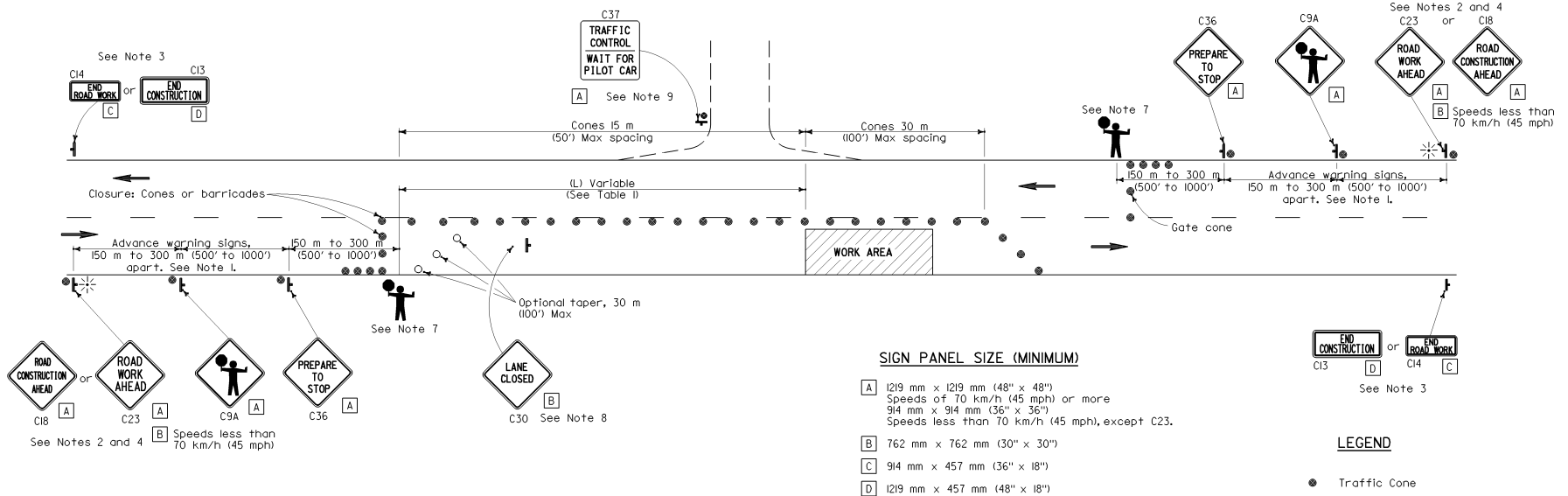
NO SCALE

T11

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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T12

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



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TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

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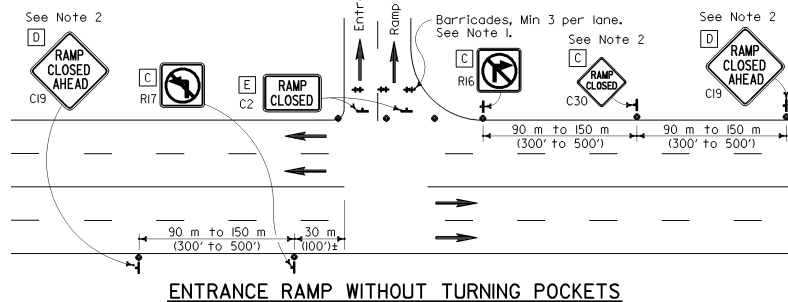
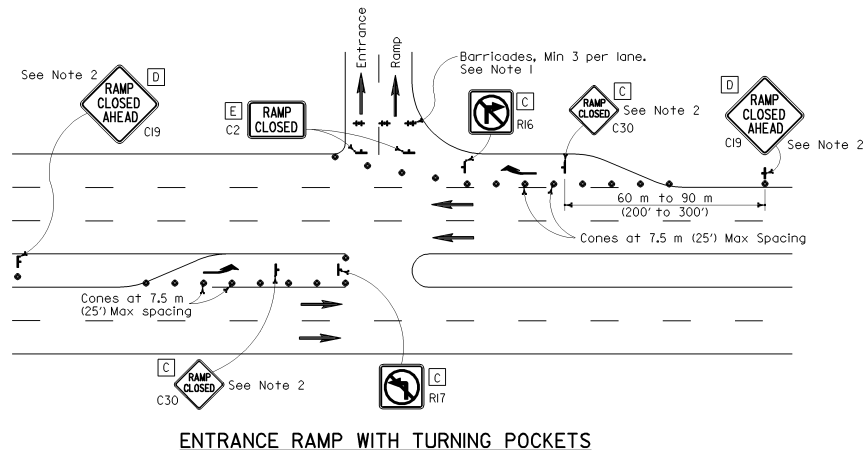
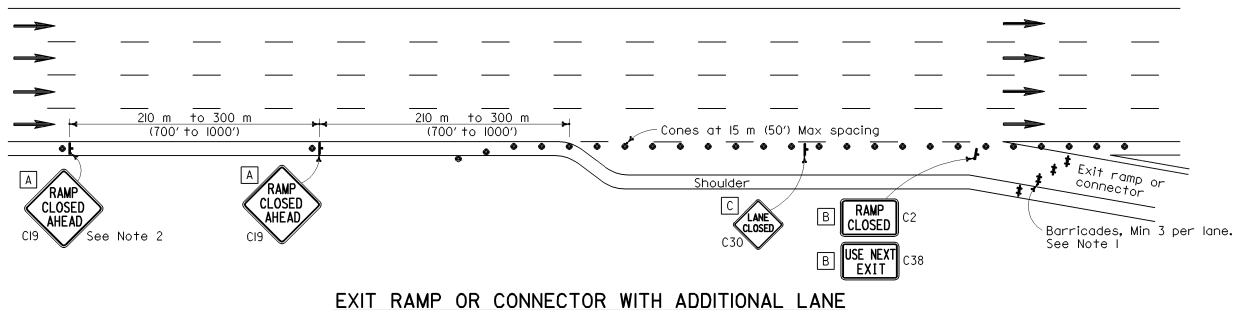
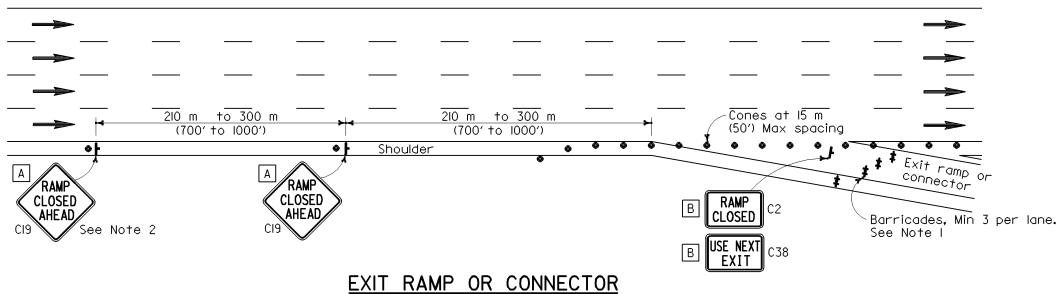
NO SCALE

T13

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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TYPICAL RAMP CLOSURES



TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

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NO SCALE

T14

DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL NO. SHEETS

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NOTES

- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In lieu of placing the C19 "RAMP CLOSED AHEAD" and C30 "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- All advance warning sign installations shall be equipped with flags for daytime closures.
- All cones used for night lane closures shall be fitted with reflective sleeves as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used in lieu of cones for daytime ramp closures only.
- During nighttime ramp closures, at least one person shall be assigned full time for maintenance of traffic control devices.

LEGEND

- Traffic Cone
- Sign
- Barricades
- Direction of Travel
- Turn Arrow

SIGN PANEL SIZE (Min)

- | | |
|---|-------------------------------|
| A | 1219 mm x 1219 mm (48" x 48") |
| B | 1219 mm x 762 mm (48" x 30") |
| C | 762 mm x 762 mm (30" x 30") |
| D | 914 mm x 914 mm (36" x 36") |
| E | 914 mm x 610 mm (36" x 24") |